Support Document
BC Timber Sales - Kootenay Business Area

☒ Original
☐ Amendment #

PROPOSED DEVELOPMENTS COVERED BY THIS SUPPORT DOCUMENT				
DEVELOPMENT NAME	LENGTH	LOCATION	POC	POT
KL0236.15 Kokanee8500 (Permanent Proposed)	1+300m	Kokanee Creek	Hub 7 LRM: 0+000m TSA: 0+087m Survey & Design: 0+084.8m 49°39'54" N, 117°08'29" W	Hub 125 LRM:1+300m TSA 1+400m Survey & Design: 1+397.1m 49°39'53" N, 117°08'14" W
KL0236.16 Kokanee8510 (Permanent Proposed)	0+090m	Kokanee Creek	Hub 2 LRM: 0+000m TSA: 0+016m Survey & Design: 0+016m 49°40'04" N, 117°08'13" W	Hub 14 LRM:0+090m TSA 0+111m Survey & Design: 0+110.4m 49°40'06" N, 117°08'11" W
This Support Document relates to the KL0236.15 Kokanee8500 and KL0236.16 Kokanee8510 Road Site Plan, signed Sept. 8, 2020 Refer to the "20170511_WADF_LLA "for planning information and the "20180122 Referral" for referral information related to this proposed development. There are slight discrepancies in distances between the Road Site Plans, the Geometric Road Design and TSA Report. For all positions of locations, between these three (3) reports, only the Hubs (Stations) will be used as a cross reference. All references to "This proposed development" within this document refer to the KL0236.15 Kokanee8500 and KL0236.16 Kokanee8510 as described above. This Support Document provides additional details related to how the results, strategies and measures in the Site Plan are met. Further supporting documentation is referenced at the end of the Support Document, in Section 4(g) (Definitions).				

THE FOLLOWING INFORMATION IS ATTACHED FOR INFORMATION ONLY AND DOES NOT FORM PART OF THE SITE PLAN

This document describes planning items and identifies action items.
Action items for BCTS are highlighted in blue. Action items for Contractors and Agreement holders are highlighted in yellow.

1. ASSESSMENT INFORMATION

1(a) VISUAL IMPACT ASSESSMENT

VISUAL IMPACT ASSESSMENT

This proposed development is overlapped by areas with an Established Visual Quality Objective: Visual Landscape Inventory (VLI) Polygons #97 and #99. These polygons have an Established Visual Quality Objective (EVQO) of *Partial Retention*.

A Visual Impact Assessment was completed by Coastfor Enterprises (VIA-1004), based on the Forest and Range Evaluation Program (FREP) Protocol for Visual Quality Effectiveness Evaluation Procedures and Standards. The final determination of the VIA was:

The altered forest landscape resulting from the Proposed Development, when considered alongside the existing alterations, meets the *Partial Retention* category of altered forest landscape as defined in FPPR 1.1, as seen from all identified Significant Public Viewpoints. The resultant altered forest landscape will be:

(i) easy to see,
(ii) medium in scale, and
(iii) natural and not rectilinear or geometric in shape

This altered forest landscape falls below the upper confines of the *Partial Retention* category of altered forest landscape applicable to the scenic area

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results & Strategies Sections:
- 5.5. Visual Quality - Scenic Areas and Visual Quality Objectives

Other Documents / Assessments / Resources (as applicable):
- Visual Impact Assessment

1(b) Forest Health

This proposed development:
Forest health issues will be managed in the future at the cutblock level. The proposed development provides access to future cutblocks.
No forest health issues were noted during field work.

1(c) CULTURAL HERITAGE RESOURCES

FIRST NATIONS REFERRAL

The proposed development is located within the asserted traditional territories of the following First Nations Councils/Alliances (as found within the BCTS ArcGIS database): **Ktunaxa Nation Council, Qwelminte Secwépemc LOC, and Okanagan Nation Alliance**

BCTS is responsible for completing referrals and has their own specialist covering all aspects of which FN to contact. Referrals were provided as per the FSP and Site Plans, either directly to First Nations or indirectly via Alliances/Councils. Specific referral details are found within the First Nations Consultation Sign-off.

The referral period was from January 22nd to March 22nd, 2018 (20180122 Referral).

BCTS is proceeding with the proposed development. No comments or concerns were made known in the preparation of Site Plans associated with this proposed development.

CULTURAL HERITAGE REVIEW (CHR)
This proposed development: Okanagan Indian Band responded to the first nations referral with a CHR work plan on April 23, 2018. Both Block 1 (WAW-018) and Block 2 (WAW-017) were identified as needing field reviews in this CHR work plan however no field work has been completed to date nor has a report been issued.

PRELIMINARY FIELD RECONAISSANCE (PFR)
This proposed development: First Nations who were referred did not conduct a PFR for this proposed development.

CULTURAL CONSERVATION VALUES (CCV) MANAGEMENT
This proposed development does not overlap CCVM areas.

BCTS is committed to:

1. Working with the First Nations to find amicable resolutions should any concerns be identified in future.
2. Completing a First Nations Consultation Sign-off consistent with Site Plan Section 5.6 (Cultural Heritage Resources)

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategies Sections:

- 5.6 Cultural Heritage Resources

Support Document Sections:

- 1(d) Archaeological Overview / Impact Assessment

Other Documents / Assessments / Resources (as applicable):

- First Nations Consultation Summaries
- First Nations Consultation Sign-offs
- Cultural Conservation Values Attribute Recce Form
- Operational Plan / Landscape Level Assessment

1(d) ARCHAEOLOGICAL OVERVIEW / IMPACT ASSESSMENT

ARCHAEOLOGICAL OVERVIEW ASSESSMENT (AOA) & ARCHAEOLOGICAL IMPACT ASSESSMENT (AIA)
Road KL0236.15 Kokanee8500: Approximately 30m of this road overlaps AOA polygon (K10-62).
Road KL0236.16 Kokanee8510: The nearest AOA polygon (K10-62) is approximately 235m west of the road.
This proposed development: An AIA was complete by Tipi Mountain Eco Eco-Cultural Services Ltd. The following reports were issued:
Letter of Notice: N/A
Interim Report: Dated February 12, 2018
Final Report: Outstanding
Results: Field inspections within the proposed development on July 17, 2018 produced negative results with no archaeological material or sites recorded.
Recommendations: No additional investigations, or archaeological resource Management requirements for the proposed forestry development, provided development does not extend beyond the areas included within this impact assessment.
The proposed road shapes did not change or extend beyond the areas that were assessed.

Contractors and Agreement Holders will:

In the event of any unanticipated discovery(s) of archaeological materials:

1. STOP WORK; all ground disturbances in the immediate vicinity of the suspected find(s) must be suspended at once.
2. Notify BCTS Kootenay Business Are Timber Sales Manager (TSM) (250-825-1100), as soon as possible.
3. Follow TSM direction regarding the implementation of Site Plan Section 5.6 Strategy 6.

BCTS will:

In the event of any unanticipated discovery(s) of archaeological materials:

1. STOP WORK; all ground disturbances in the immediate vicinity of the suspected find(s) must be suspended at once
2. Follow Site Plan Section 5.6 Strategies 5 & 6, which may include as appropriate:
    a. Notification and collaboration with the FLNRORD Archeology Branch Manager (250-953-3334).
    b. Engagement of Qualified Professionals (Archeologists) to complete assessments.
    c. Notification and collaboration with appropriate First Nations.
    d. Notification and collaboration with Contractors and Agreement Holders as to mitigation measures.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategies Sections:

- 5.6 Cultural Heritage Resources

Support Document Sections:

- 1(c) Cultural Heritage Resources

Other Documents / Assessments / Resources (as applicable):

- AIA Assessment
- Archaeological Chance Find Procedure
- Operational Plan / Landscape Level Assessment

1(e) TERRAIN STABILITY / SITE REVIEW & AVALANCHE ASSESSMENT

TERRAIN STABILITY ASSESSMENT REPORT
This proposed development:
Road KL0236.15 Kokanee8500: Approximately 30m of this road overlaps an Unstable Terrain Polygon.
Road KL0236.16 Kokanee8510: This road does not overlap an Unstable or Potentially Unstable Terrain Polygon.
The BCTS Terrain Stability Management Model was applied for this proposed development. The Terrain Stability Decision & Documentation Tool was completed by Gordon Hettebrij, RFT of BCTS and indicated that a Terrain Stability Assessment or Site Review assessment was required.

A Terrain Stability Assessment was completed by Sitkum Consulting Ltd. (Tedd Robertson, P.Geo. Eng.L. Geoscientist) on June 16, 2020. For prescribed road works and general recommendations, refer to the attached ***"Kokanee 8500 & 8510_Assess_TSA"*** Report.
All changes suggested by Sitkum in developing the final TSA Report have been incorporated into this TSL.
All residual hazards, residual partial risks and residual risks are estimated to be Low to Very Low.

Snow Avalanche Risk to Workers:
If operations are planned during the winter or early spring (typically November 15 through May 15), then the Contract and Agreement Holders must develop an avalanche safety plan that should be prepared and implemented by a qualified person with the intent of identifying and managing the risk to workers as required by WorkSafeBC Occupational Health and Safety Regulation 4.1.1 and 4.1.2. This plan should be prepared prior to winter operations in order to be understood and implemented prior to workers entering avalanche terrain.

Contract and Agreement Holders must:

1. Refer to the TSA Report in its entirety, including:
   - Section 5.0 RECOMMEDATIONS: for recommendations to reduce the likelihood of redirected runoff and landslide initiation.
   - Appendix B – Construction Summary Tables and Typical Section Diagrams: for summarized specific road construction recommendations.
   - Appendix C – Figures.
2. Follow TSA Report recommendations unless otherwise directed and documented by a Qualified Registered Professional (QRP).

GEOMETRIC ROAD DESIGN

1. A road design was done by Sproulers' Enterprises Limited (SEL) Jan. 30, 2020.
2. Refer to the Kokanee 8500 & 8510 Geometric Road Designs.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategies Sections:

- 5.1 Soils
- 5.4.1 Water in Community Watersheds
- 5.4.2 Consumptive Use Streams
- 5.8.1 Road Maintenance
- 5.8.2 Revegetation Following Road Construction and Deactivation

Support Document Sections:

- 1(g) Soil Assessment

Other Documents / Assessments / Resources (as applicable):

- Site Plan SU Descriptions
- Terrain Stability Assessment / Site Review
- Terrain Stability Management Model Decision & Documentation Tool

1(f) RIPARIAN ASSESSMENT

RECOMMENDED MANAGEMENT PRACTICES
This proposed development:
BCTS will:

1. Review the requirements below with Review Contractor and Agreement Holders during pre-works.

Contractors and Agreement Holders:

1. All natural drainage patterns (incl. watercourses, seepages, & dry swales/gullies) must be maintained & left free of debris (slash/soil) that could result in redirection of surface runoff.
2. Hand-falling may be required in areas.
3. Culvert installation must be consistent with Construction Summary tables, or as otherwise directed by a QRP.

FSP 5.3.1 5 RESULT 1
Sections 47, 48 & 49 of the FPPR (Riparian Classes).
This proposed development: Riparian area classification has been done in accordance with FPPR Sections 47, 48 and 49.

FPPR Section 50 (Restrictions in a RMA).
This proposed development has roads that will be constructed within Riparian Management Areas (RMAs) of classified riparian features.

- **Kokanee8500:** Crosses stream S6-1
  - The road is required as part of a stream crossing FPPR 50(1)(c).
- **Kokanee8510:** None

Contractors and Agreement Holders will:

For any proposed or existing roads located within the proposed development:

1. Not carry out road maintenance activities beyond the clearing width of the road, except as necessary to maintain a stream crossing. FPPR 50(2).
2. Not remove gravel or other fill from within a riparian management area in the process of constructing, maintaining or deactivating a road, unless FPPR 50(3),
   (a)the gravel or fill is within a road prism,
   (b)the gravel or fill is at a stream crossing, or
   (c)there is no other practicable option.

FPPR Section 51 (Restrictions in a RRZ).
This proposed development is not within or adjacent to any Riparian Reserve Zones (RRZs). There are no requirements under FPPR Section 51 that are applicable to this proposed development.

FPPR Section 51 (Restrictions in a RRZ).
This proposed development is not within or adjacent to any Riparian Reserve Zones (RRZs)

FPPR Section 52(2) (Restrictions in a RMZ, Stream Bank and Chanel Stability).
This proposed development is not within or adjacent to any Riparian Management Zones (RMZs) for S4, S5 or S6 that
(a) are a direct tributary to S1, S2 or S3 streams, FPPR 52(2)(a), or
(b) flow directly into the ocean FPPR 52(2)(b)&(c).
There are no requirements under FPPR 52(2) that are applicable to this proposed development.

FPPR Section 53 (Temperature Sensitive Streams).
This proposed development is not within or adjacent to any Riparian Management Areas (RMAs) for any temperatures sensitive streams as there are no temperature sensitive streams designated within any of the FDUs identified in the FSP as of the submission date of the FSP. There are no requirements under FPPR 53 that are applicable to this proposed development.

FSP 5.3.1 5 RESULT 2B - RIPARIAN ASSESSMENT
This proposed development:
There are no classified riparian features associated with this proposed development. Tree retention levels in RMZs will be managed and assessed in the future at the cutblock level.

RIPARIAN ID AND CLASS	RMA Width (m)	Culvert Size (mm)	Stn/Hub	COMMENTS (Rationale if within the RMA)
S6-1	20	1200	30	FPPR 50(1)(c).
S6-1	20	1200	102	FPPR 50(1)(c).

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategies Sections:
- 5.3.1.5 Water, Fish, Wildlife and Biodiversity within Riparian Areas

Support Document Sections:
- 2(b) Group WTRA Calculations

Other Documents / Assessments / Resources (as applicable):
- Riparian Assessment
- WTRA Cards
- Harvest Plan

1(g) SOIL ASSESSMENT

This proposed development: A soils assessment was completed during the Terrain Stability Assessment for this proposed development. Soils will be managed and assessed in the future at the cutblock level. No concerns regarding soils were noted in the field.

1(h) WINDTHROW ASSESSMENT

This proposed development: A windthrow assessment was not completed for the proposed development. Windthrow will be managed and assessed in the future at the cutblock level. No windthrow concerns were noted in the field.

1(i) WATERSHED / HYDROLOGICAL ASSESSMENT

COMMUNITY WATERSHEDS
This proposed development is not located within a Community Watershed.
FPPR Sections 60(2), 61, 62, & 63: This road is not located within a "community watershed" defined in FPPR Section 8.2. There are no requirements under these FPPR Sections that are applicable to this road.

DOMESTIC WATERSHEDS
This proposed development overlaps the Kokanee Main Domestic Watershed.

DOMESTIC WATER LICENCES
This proposed development: There are no PODs or water lines within or adjacent to this proposed development. The nearest "licensed waterworks" are numerous domestic water licenses about 7 km downstream on S5-1 Kokanee Creek after the class change to S3 below an identified barrier to fish passage.

FPPR Section 59 (Protecting Water Quality):
Primary forest activity will not cause material that is harmful to human health to be deposited in, or transported to, water that is diverted for human consumption by a licensed waterworks.

FPPR Sections 60(1) (Licensed Waterworks):
Primary forest activity will not damage a licensed waterworks.

BCTS and Contract and agreement holders will:
To safeguard domestic water licenses, including protecting water that is diverted for human consumption (FPPR 59) and preventing damage to licensed waterworks (FPPR 60(1)):
1. Refer to the risks and follow the recommendations within the Terrain Stability Assessment.
2. Use normal good harvesting, road-building and water control practices to minimize any potential impact. (Poor practices can easily lead to sedimentation and other impacts to water quality for downstream domestic water licenses.)

CONSUMPTIVE USE STREAMS
This proposed development: An assessment was performed to identify any Consumptive Use Streams and Streamside Management Zones, located within or adjacent to the proposed development, per the criteria in KBHLPO Objective 6. The following stream

segments meets the definition of Consumptive Use Streams with Streamside Management Zones. The segments are described below, progressing from the catchment outflow towards the headwaters:

- **Kokanee8500:** S5-1 Kokanee Creek
  - Above a Habitat Wizard identified barrier to fish passage (falls, UTM 11U 490361 E, 5495809 N), where the FPPR Section 47 stream classification changes from S3 (or possibly S2/S1B, irrelevant) to S5
  - Below the stream order change from 5 to 4, where two fourth order streams meet (UTM 11U 488951 E, 5506415 N).

KBHLPO Objective 6 Specific Measures to Safeguard Water Licensed for Human Consumption within Streamside Management Zones
This proposed development does not overlap any Streamside Management Zones. There are no requirements under KBHLPO Objective 6 that are applicable to this road.

WATER STAKEHOLDER COMMUNICATIONS AND COMMITEMENTS
BCTS:

1. Is tracking stakeholder/tenure communications and commitments external to Site Plans and Support Documents.
2. Will make Contractors and Agreement Holders aware of any stakeholder/tenure commitments at the time of pre-work.

HYDROLOGIC ASSESSMENT / ECA
This proposed development: The 20170511_WADF_LLA (Landscape Level Analysis), which includes this proposed development, was completed by BCTS on June 5, 2017 and includes ECA analyses. Those analyses were informally updated by BCTS in May of 2017. This proposed development is located within the Kokanee Creek Watershed and the Kokanee Main sub-basin, for which the updated post-harvest ECAs are 5.7% and 2.4%, respectively. These low ECA values represent a low hydrological risk. Based on this information, BCTS made the decision not to complete a full hydrological assessment.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategies Sections:

- 5.4.1 Water in Community Watersheds
- 5.4.2 Consumptive Use Streams

Other Documents / Assessments / Resources (as applicable):

- Riparian Assessment
- Watershed Assessment

1(j) WILDLIFE ASSESSMENT

FPPR 7(2) NOTICES AND GAR 9-13 ORDERS
This proposed development: At the time of signing and sealing of this Support Document, the following Notices under FPPR Section 7(2) and Orders under the GAR Sections 9 to 13 are applicable to the proposed development:

- **Categories of Species at Risk.** Made under authority of section 13(1) of the GAR (in effect May 3, 2004, May 30, 2005, Jun 6, 2006 and Jul 18, 2011)
- **Wildlife Habitat Features in the Kootenay Boundary Region** (Order M213). Made under the authority of section 11(1) of the GAR (in effect Jul 1, 2018).

BCTS and Contract and Agreement Holders will:

1. Ensure that active primary forest activities are compliant with all Notices and Orders in place at the time that tenures/ authorizations are approved.

Categories of Species at Risk:
This Order establishes a list of species of wildlife that are a category of species at risk (SAR) that may be affected by forest or range management on Crown land and require protection in addition to that provided by other mechanisms.
This proposed development:
Field crews exhibited due care an attention in watching for suspect SAR during the normal course of forest development activities and none were identified, either within or adjacent to the proposed development.

Contract and Agreement Holders will:
If a suspect SAR is identified during active primary forest activities:

1. STOP WORK and follow BCTS Environmental Field Procedures (EFPs) and refer to Site Plan Section 5.3.2.4 Strategy 2d.

Wildlife Habitat Features in the Kootenay Boundary Region:
This Order established Wildlife Habitat Features (WHFs) (a) through (n) (e.g. stick nests, cavity nests, burrows, dens, licks, wallows, high value wildlife trees, roosts and springs), wherever they are found within the Kootenay Boundary Regions. These WHFs and this GAR Order relates, but are not limited, to FPPR 72(2).
This proposed development:
Field crews exhibited due care an attention in watching for suspect WHFs during the normal course of forest development activities and none were identified, either within or adjacent to the proposed development.

Contract and Agreement Holders will:
If a suspect Wildlife Habitat Feature is identified during active primary forest activities:

1. STOP WORK and follow BCTS Environmental Field Procedures (EFPs).

BC CONSERVATION DATA CENTER
This proposed development: A March 17, 2020 query of the BC Conservation Data Center did not identify any terrestrial species of management concern overlapping or adjacent (within 4 km) to this proposed development.

BCTS SPECIES OF MANAGEMENT CONCERN
This proposed development: Field work associated with this proposed development did not identify any of the species of management concern recorded within BCTS' "Species of Management Concern in the Kootenay Business Area" (BCTS updated 2019).

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Support Document Sections:
- 1(l) Species at Risk Assessment
- 2(a) WTRAs (Inside or attributed to the block)

Site Plan Results and Strategies Sections:
- 5.3.1.5 Water, Fish, Wildlife and Biodiversity within Riparian Areas
- 5.3.1.7 Wildlife and Biodiversity - Stand Level
- 5.3.2.1 Grizzly Bear Habitat and Connectivity Corridors
- 5.3.2.4 Species at Risk, Regionally Important Wildlife, Ungulate Winter Range and Wildlife Habitat Areas

Other Documents / Assessments / Resources (as applicable):
- Operational Plans / Landscape Level Assessment
- Riparian Assessment
- FPPR 7(2) Notices and GAR 9-13 Orders

1(k) FISHERIES ASSESSMENT

This proposed development:
There are currently no Fisheries Sensitive Watersheds designated within the FDUs of applicable FSP #601 2017 to 2022.

1(l) MIGRATORY BIRDS

This proposed development:
- Field crews watched for conspicuous and enduring nests during fieldwork. No such nests were identified.
- A Migratory Bird Assessment was done at the block level. This proposed development has a Rank 4 (moderately high). One or more BMPs with DoP rank 2 is required.

Contractors and agreement holders will:
1. Ideally schedule harvesting for outside of the R2 Restricted Period, May 15 to July 20. If the specified end date is simply not workable, an earlier end date of July 15th may be used as an alternative.
2. If scheduling outside of Restricted Periods is not possible, the following BMPs have been/will be are applied to this proposed development which meet or exceed the BMP requirements above:
    a. L01 Enduring Nest Identification (DoP Rank 2): Field crews watched for conspicuous and enduring nests during fieldwork. No nests were identified. Contractors and agreement holders undertaking timber harvesting and road construction associated with this proposed development shall follow the Stop Work procedures in EFP 05 Harvesting under the BCTS Environmental Management System (EMS) if a previously unidentified active nest is encountered. If unsure whether a nest is active vs. inactive, follow the Stop Work procedures in EFP 05.
    b. L04 Wildlife Tree, Snag and Stub Retention (unplanned) (DoP Rank 2): Contractors and agreement holders undertaking timber harvesting and road construction associated with this this proposed development shall retain windfirm snags and stubs that do not present a safety hazard as per the Schedule B / Harvest Plan. It is important at all times when planning and implementing activities related to wildlife tree retention to meet WorkSafe BC Regulations.
    c. Pl2 Planned Retention (DoP rank 2): Wildlife Tree Retention Areas (WTRAs) will be designated at the TSL level, according to FSP Appendix 3, and provide high-value habitat for Migratory Birds.
3. Follow chance find procedures (Migratory Bird SOP step 16).

BCTS will:
1. Ensure contractors receive training requirements (Migratory Bird SOP step 1).

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
- TA0654 Migratory Bird Assessment

1(m) GREEN-UP ASSESSMENT

This proposed development: A green-up assessment is not required for this proposed development. Green-up will be managed and assessed in the future at the cutblock level.

1(n) OTHER ASSESSMENTS

COLLABORATION ASSESSMENT
This proposed development: A collaboration assessment was completed on April 15, 2020 by Richard Cane, RPF. The assessment indicated that referrals were completed, and the objectives set by government will be achieved within this shared landscape unit.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategies Sections:
- 4.5.1 Collaboration within Shared Management Units

Other Documents / Assessments / Resources (as applicable):
- Collaboration Assessment

1(o) ECOLOGICAL AND BIODIVERSITY INFORMATION

Development Name	SU	LMH 70 BEC	KBHLPO						
			Landscape Unit	Biodiversity Emphasis Option	Mature Forest Target Table 2.5	BEC	NDT	OGMA Overlap	Connectivity Corridor Overlap
Kokanee 8500 & Kokanee 8510	N/A	ICHmw4	K10	Intermediate	Yes	ICHdw	3	Yes	Yes

Comments

KBHLPO OBJECTIVE 5: GRIZZY BEAR HABITAT AND CONNECITIVITY CORRIDORS
(1 & 2) Grizzly bear habitat mapping, KBHLPO map 5.1, has not been created and is not in effect.

(3) The proposed development is located within a connectivity corridor as per KBHLPO map 5.2. See Objective 5 & 6 below.
(4) The proposed development does not contain any known slopes greater than 80 percent.
(5 & 6) Refer to FSP Section 5.3.1.2 (Old and Mature Forest) for consistency regarding old and mature forests, which by default include connectivity corridors.

KBHLPO OBJECTIVE 2 – OLD AND MATURE FOREST
Mature Forests
This proposed development: Landscape Unit K10 in the ICHdw (intermediate Biodiversity Emphasis Option) has a mature seral management requirement. An analysis which incorporated planning shapes for this proposed development was included in the 20170511_WADF_LLA and indicated that the Mature Forest target would be met, with a total surplus of 2965.9ha of Old and Mature.

OGMA Overlap
Kokanee8500:
This road is being built to harvest the proposed cutblock WAW-017 which overlaps 0.25 ha of OGMA (Polygon's Provincial ID: DSE_3799).
As per FSP Section 5.3.1.2.1(d): The road is being built where there is no other practicable location to construct a road, or where another location would result in greater risk to one or more FRPA Values. Furthermore, the OGMA boundaries have been updated within the Geographic Information System (GIS) OGMA Data Layer of the BCTS Data Library.

Kokanee8510: This proposed cutblock does not overlap OGMA.

- REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:

Site Plan Results and Strategies Sections:
- 5.3.1.1 Biodiversity Emphasis
- 5.3.1.2 Old and Mature Forest

Other Documents / Assessments / Resources (as applicable):
- OGMA Replacement Assessment

2. RESERVE / RETENTION INFORMATION
This proposed development: A Reserve & Retention Assessment is not required for this proposed development. Reserve & Retention will be managed and assessed in the future at the cutblock level.

3. ACCESS SUMMARY
This proposed development: Temporary Access Structure Calculations are not required for this proposed development. Temporary Access Structure Calculations will be managed and assessed in the future at the cutblock level.

This proposed development: Permanent Access Structure Calculations are not required for this proposed development. Permanent Access Structure Calculations will be managed and assessed in the future at the cutblock level.

4. OTHER SUPPORTING INFORMATION

4(a) HLP / FSP CONSIDERATIONS

This proposed development: Refer to the Site Plan for information regarding consistency with the results, strategies, objectives, and measures of the British Columbia Timber Sales (BCTS) Kootenay Business Area Forest Stewardship Plan (FSP) #601 2017-2022 and the Kootenay Boundary Higher Level Plan Order.

STAKEHOLDER COMMUNICATIONS AND COMMITEMENTS
BCTS:
1. Is tracking stakeholder/tenure communications and commitments external to Site Plans and Support Documents.
2. Will make Contractors and Agreement Holders aware of any stakeholder/tenure commitments at the time of pre-work.

4(b) RANGE COMMENTS

RANGE AGREEMENT HOLDER REFERRALS
This proposed development does not overlap an active Range Tenure. There are no known natural range barriers associated with the proposed development. No referrals are required.

RANGE OFFICER REFERRALS
This proposed development does not overlap any active Range Tenures. No referrals are required.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategy Sections:
- 6.2 Measures to Mitigate the Loss of Natural Range Barriers

Other Documents / Assessments / Resources (as applicable):
- Operational Plan / Landscape Level Assessment
- Range Assessment

4(c) RECREATION COMMENTS

INTERPRETIVE FOREST SITES, RECREATION SITES OR RECREATION TRAILS IDENTIFIED ON FDU MAPS
This proposed development is not within or adjacent to an established interpretive forest site, a recreation site or a recreation trail identified on the FDU maps.

However, the following features are in the general vicinity of the proposed development:
Recreation Trail: None
Interpretive Forest Sites: None.
Recreation Sites: Kokanee Area - REC262198
- Overlap/adjacency: Approximately 100 m north of the northern Kokanee8500 and 320m north of Kokanee8510.
- Legal Objectives: This feature does not have any known established legal objected.
- Agreement or Tenure Holder: Not reviewed.
- Management of proposed development in relation to this recreation feature: None.
- Proposed Development may affect this recreation feature (if yes, a FRR Section 16 letter is required): No
- Forest information sign: A sign about stand dynamics is on the west side of the Kokanee Glacier Park Road, roughly west of Block WAW_017's FC14. This sign is not designated as an interpretive forest site and it does not appear on the FDU maps.

FRR Section 16 Authorization
This proposed development: A Forest Recreation Regulation Section 16 authorization letter is not required. The Recreation Officer was not referred under the operational plan.

OTHER RECREATION TRAILS, SITES OR FEATURES
This proposed development is not within or adjacent to a known interpretive forest site, a recreation site or a recreation trail **not** identified on the FDU maps.

License – License of Occupation
This proposed development is not within or adjacent to a known License of Occupation area.

GENERAL RECOMMENDATIONS FOR MANAGING PUBLIC SAFETY
The road systems in the area are frequently used by ATVs, snowmobiles, hikers, hunters, mountain bikers, berry pickers, campers and outdoor enthusiasts. The following recommendations are made to assist in ensuring public safety.

Contract and Agreement Holders are to:

1. Keep roads free of debris and in good working order. Operations must be conducted to ensure public safety.
2. Use appropriate radio communication when traveling along roads.
3. Post clear signage informing the public of harvesting and/or hauling activities. Signage content must follow WorkSafeBC regulations. The placement of signage must be strategic in terms of the location of operational activities and must specifically address the expectation of industrial operations.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategy Sections:

- 5.7 Recreation Resources

Other Documents / Assessments / Resources (as applicable):

- Operational Plan / Landscape Level Assessment

4(d) INVASIVE SPECIES COMMENTS

This proposed development: Known invasive plant infestations were identified in the general area of this proposed development using the MFLNRORD Invasive Alien Plant Program (IAPP) database as accessed on May 15th, 2019. Details are summarized in the table below:

Site Location	Site ID (s)	Species & code(s)	Existing / Newly identified	Location details / comments
Within This proposed development	None		None	None identified.
Adjacent to this Proposed Development	Numerous	Chicory (CY) Hawkweed spp. (HS) St. John's wort (SJ) Spotted knapweed (SK) Common tansy (TC) Mouse ear hawkweed (ME) Oxeye daisy (OD) Common periwinkle (CP) Scotch broom (SB) Himalayan blackberry (HI) Hoary alyssum (HA) Bull thistle (BT) Siberian elm (SE) Orange hawkweed (OH)	Existing	Near the Hwy 3A/Kokanee FSR junction which is approximately 4 km south of this proposed development, and the only available access route.

BCTS will:

1. Monitor and report-on all identified invasive plants within this proposed development, according to FSP Measure 6.1 Strategy 4.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Site Plan Results and Strategy Sections:

- 6.1 Measures to Prevent the Introduction or Spread of Invasive Plants

4(e) TRAPPER / GUIDE OUTFITTER COMMENTS

TRAPLINE
This proposed development overlaps Trapline Tenure TR0418T003. Referrals were not provided because there was no listing in the trappers contact list.

GUIDE OUTFITTER
This proposed development does not overlap a Guide Outfitting Tenure.

BCTS:

1. Is tracking stakeholder/tenure communications and commitments external to Site Plans and Support Documents.
2. Will make Contractors and Agreement Holders aware of any stakeholder/tenure commitments at the time of pre-work.

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
Other Documents / Assessments / Resources (as applicable):

- Operational Plan / Landscape Level Assessment

4(f) OTHER RESOURCES COMMENTS

MINERAL TENURES
This proposed development does not overlap a mineral tenure.

PRIVATE LAND
This proposed development is not adjacent to any private land.

OTHER RELEVANT TENURES

This proposed development does not overlap any other relevant Land Use Tenures with relevance to timber harvesting rights associated with this TSL.

BCTS:

1. Is tracking stakeholder/tenure communications and commitments external to Site Plans and Support Documents.
2. Will make Contractors and Agreement Holders aware of any stakeholder/tenure commitments at the time of pre-work.

4(g) DEFINITIONS

Refer to the Final Deliverables Checklist for a listing of specific documents referred to with generic names within Site Plans and this Support Document.

5. ADMINISTRATION

☒ ORIGINAL ☐ AMENDMENT#

RPF PRINTED NAME	RPF'S SIGNATURE & SEAL
Roger Despot, RPF	
DATE SIGNED	
Sept. 8, 2020	
"I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to the standards expected of a member of the Association of British Columbia Forest Professionals."	